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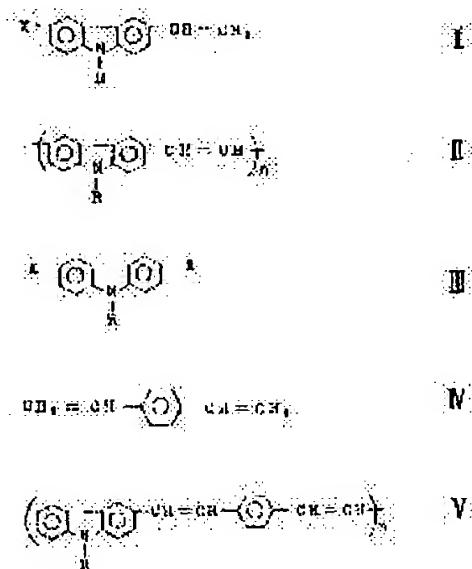
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(54) ELECTRICALLY-CONDUCTIVE MATERIAL OF ORGANIC HIGH POLYMER

(57) Abstract:

PURPOSE: To provide a high polymer having high heat stability with electrical conductivity by the use of a nonpoisonous electron acceptor, by adding an electron acceptor to a polymer consisting of a poly(arylene vinylene) derivative having a carbazole skeleton in a main chain.

CONSTITUTION: An electron donor (e.g., I₂, SO₃, etc.) is added to a polymer consisting of a poly(arylene vinylene) derivative having a carbazole skeleton in a main chain shown by the formula II (R is H, or 1W16C alkyl; n is positive integer) obtained by dehydrohalogenating an N-substituted-3-vinyl-6-halocarbazole derivative shown by the formula I (R is as shown for formula II; X is Br, or I), having ≥2 polymerization degree, and ≥5, preferably ≥10 average polymerization degree, or shown by the formula V (R and n are as shown for formula II) obtained by reacting an N-substituted-3,6-dihalocarbazole shown by the formula III(R and X are as shown for formula I) with divinylbenzene shown by the formula IV, having ≥2 polymerization degree, and ≥5, preferably ≥10 average polymerization degree.



LEGAL STATUS

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